

# SHATAKSHI DUBEY

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## Education

### Vellore Institute of Technology

*B.Tech in Computer Science and Engineering; CGPA: 8.21/10*

Bhopal, India

*Jun 2026*

### Kendriya Vidyalaya Sangathan

*12th Standard; 94%*

Seoni, Madhya Pradesh

*Apr 2022*

### Kendriya Vidyalaya Sangathan

*10th Standard; 91.8%*

Seoni, Madhya Pradesh

*Apr 2020*

## Technical Skills

**Languages:** Java, Python, SQL, HTML/CSS, JavaScript

**Frameworks:** React.js

**Tools:** Git, Windows

**Expertise:** Databases, Networking, OOP, AWS

**Certifications:** Salesforce Developer (Ethnus), AWS Solution Architect (Ethnus), MATLAB Onramp (MathWorks), Computer Networking (Coursera), Cloud Computing (NPTEL)

## Projects

### FoodShare (React, Node.js, SQL)

Mar 2025

- Created food donation platform connecting 150+ donors with 80+ organizations, diverting 2.5 tons monthly from landfills via real-time matching (15 min avg)
- Optimized SQL databases for distributed systems, reducing query latency by 30% through strategic indexing of high-frequency operations, query plan analysis, and connection pooling implementation
- Integrated blockchain storage solutions leveraging SHA-256 cryptographic hashing and smart contracts, boosting data integrity by 50% with immutable, timestamped audit trails for secure transaction verification

### Face Recognition Attendance System (Python, dlib, OpenCV)

Apr 2024

- Architected recognition system achieving 95% accuracy managing 100+ profiles, reducing admin workload 75%
- Enhanced processing 30% (15→20 FPS) maintaining 90%+ accuracy across diverse lighting
- Deployed microservices architecture supporting 200+ concurrent authentications at 99.8% uptime
- **Engineered** Pandas-based data infrastructure handling 10,000+ facial embeddings with 98% storage efficiency, reducing database size 40%
- **Validated** system robustness through 15,000+ test images across 5 lighting scenarios, achieving 93% precision-recall balance
- **Integrated** real-time alerting for unrecognized faces, decreasing unauthorized access attempts by 65% during campus trials

### Driver Drowsiness Detection (Python, TensorFlow, OpenCV)

Sep 2023

- Developed CNN model achieving 92% recall on 10k+ DROZY/NTHU-DDD images
- Accelerated inference 40% faster (85ms→51ms) on Jetson Nano with 15% CPU utilization
- Integrated alarm system reducing simulated accidents 60% in 50+ participant trials
- **Engineered** adaptive thresholding for 6 lighting conditions, improving detection accuracy 25% in low-light scenarios
- **Validated** system with 200+ hours of real-road testing, achieving 94% precision across diverse driving environments
- **Optimized** data pipeline processing 50 frames/second, reducing false positives 35% through temporal smoothing techniques

## Leadership & Extracurricular

### Content Team Member, Igniters Club

Sep 2024 - Present

- **Spearheaded** content development producing 15+ technical guides and event promotions for Igniters Club, achieving 85% engagement rate among 500+ student members monthly
- **Orchestrated** cross-platform content strategy boosting engagement metrics 40% across 3 channels

## Interests & Languages

**Languages:** English (Fluent), Hindi (Fluent)

**Interests:** Technical Writing, Sketching, Vocal Performance